

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method for detecting a psychological disorder condition in a person by recording an activity pattern of the person and ~~analysing it~~ analyzing the pattern, the method comprising:

~~collecting~~ receiving, by an electronic memory, electronic activity data comprising at least electronic movement data, wherein the electronic movement data are and, optionally, other data from a person by received from a movement measuring device, and further wherein the electronic movement data are collected by the movement measuring device while the device is borne worn by the person during data collection;

~~[[-]] storing the collected activity data in a database memory in contact with the device during the collection of data; that is accessible by~~

~~transferring the stored data to a computer;;~~

~~[[-]] calculating by the computer at least one set of parameter data distinctive of said the electronic movement data;~~

~~[[-]] feeding said the at least one set of said parameter data to an Artificial Neural Network;~~

~~trained to recognise in said data~~ organizing, by the Artificial Neural Network, groups or clusters of the parameter data that have similar properties, wherein the properties represent a feature specific for a psychological disorder or a group of psychological disorders;;

associating the groups or clusters with labels dependent on features from the parameter data having known qualities that are related to psychological disorders;

analyzing, by the Artificial Neural Network, the received set of parameter data by:

(i) determining, dependent on the set of parameter data, a response value that is indicative of a distance between the received set of parameter data and the groups or clusters; and

(ii) determining, dependent on the response value, at least one of the groups or clusters that is proximate to the response value; and

outputting an indication of the label of the at least one of the groups or clusters as a classification of a respective feature related to at least one psychological disorder, thereby determining the presence or absence of ~~said~~ the psychological condition.

2. (currently amended) The method of claim 1, wherein the psychological disorder is ~~selected from the group comprising: Attention-deficit-hyperactivity disorder (ADHD), Disruptive behaviour disorder, Disorders including sleep disorders such as Primary insomnia and Sleepwalking disorder, Posttraumatic stress syndrome, phobias, Bipolar affective disorder, Bipolar mood disorder, Major depression, Unipolar major depressive disorder, Schizoaffective disorder manic type, Schizophrenia, Panic disorder with agoraphobia, Social phobia, Obsessive-compulsive disorder, Amphetamine abuse, Hallucinogen disorder, Cannabis intoxication, Opioid dependence, Tourette's Disorder, Autistic disorder.~~

3. (original) The method of claim 2, wherein the psychological disorder is ADHD and other hyperactivity disorder.

Claim 4 (canceled).

5. (currently amended) The method of claim 1, further ~~comprising the calculation of~~ calculating at least two sets of parameter data.

6. (currently amended) The method of claim 1, further ~~comprising the collection of~~ collecting by the device non-movement data simultaneously with the ~~collection of the movement~~ data[[,]]; and

~~to analyse said other~~ analyzing the non-movement data in a corresponding manner in the artificial neural network.

7. (currently amended) The method of claim [[5]] 6, wherein the non-movement data [[is]] are heart rate data.

8. (currently amended) The method of claim 1, wherein the person is under the influence of a drug capable of affecting a psychological disorder of which the person may suffer during the collecting of the movement data.

9. (original) The method of claim 8, wherein the drug is amphetamine.

10. (currently amended) The method of claim 1, wherein movement data ~~[[is]]~~ are collected over a period of at least 8 hours.

11. (currently amended) The method of claim 1, wherein movement data ~~[[is]]~~ are collected over a period of at least 24 hours.

12. (currently amended) An assembly for detecting a psychological disorder condition in a person by recording an activity pattern of the person and analysing it, the assembly comprising:

~~[[-]]~~ a device for collecting movement and, optionally, other data from a person, the device being borne by the person during data collection;

~~[[-]]~~ a memory in contact with the device during the collection of data for storing ~~[[said]]~~ the data;

~~[[-]]~~ transfer means including an interface for the transfer of the stored data to a computer,

~~[[-]]~~ software means for calculating at least one set of parameter data distinctive of ~~[[said]]~~ the movement data;

~~[[-]]~~ means for feeding ~~said~~ the at least one set of ~~[[said]]~~ the parameter data to an Artificial Neural Network ~~trained configured~~ to recognise recognize in ~~said~~ the data a feature specific for a psychological disorder or a group of psychological disorders by organizing groups or clusters of the parameter data having similar properties and representing features of the parameter data, the groups or clusters being associated with labels dependent on features from input of the parameter data having known qualities that are related to psychological disorders; and

[[-]] means, in the Artificial Neural Network, configured for analyzing in the Artificial Neural Network the received set of parameter data by:

(i) determining, dependent on the set of parameter data, a response value that is indicative of the distance between the received set of parameter data and the groups or clusters;

(ii) determining, dependent on the response value, a group or cluster that is proximate to the response value;

(iii) outputting the label of the determined group or cluster as a classification of a feature in the parameter data related to psychological disorders;

thereby outputting an indication of the presence or absence of the psychological condition.